COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3562-13

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 608.02.03.00

FOR INTERNAL CDOT USE

Material code description full name: ADA Truncated Dome

PART 1

Product name:	Product category:
Radius Tactile, Cast-In-Place Replaceable (Wet-Set)	Pedestrian Safety\ADA Truncated Dome\Embedded
Product representative (name & address): Attn: Rob Doherty ADA Solutions, Inc. 10 Elizabeth Drive, Unit 5 Chelmsford, MA 01824 Phone: (800) 372-0519 FAX: (978) 262-9125	Manufacturer (name & address): Attn: Scott Ober ADA Solutions, Inc. 10 Elizabeth Drive, Unit 5 Chelmsford, MA 01824 Phone: (800) 372-0519 FAX: (978) 262-9125
Web-site address: www.adatile.com	Web-site address: www.adatile.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

ADA Solutions' Radius Tactile, Cast-In-Place Replaceable (Wet-Set) units are to be embedded in freshly poured concrete. Panels are a homogenous fiberglass and carbon reinforced composite which is colorfast and UV stable. Our truncated domes are fiberglass reinforced for enhanced durability. The color of the TWS panel is uniform throughout and does not rely on any type of paint or coating to achieve it's finish or color stability. Colors: Federal Yellow, Brick Red, Clay Red, Safety Red, Blue, Dark Gray, Black. The Radius Replaceable panel is 24" wide x 33.25" pre-formed to accommodate a radius application and they come in 2.35" dome spacing. The panels are pre-scored on the rear for cutting into 10', 15' and 20' radii. TWS Units measure 0.25" nominal thickness and features a 3/4" thick x 1" wide perimeter "flange" with air release vents. The Radius Replaceable panels are embedded with 1/2" x 1 1/2" concrete anchors held down by multiple 1/2" diameter bolts covered by a color matching water tight caps.

Compressive strength: 28,900 psi; Flexural strength: 29,300 psi; Slip Resistance: 1.18 Dry / 1.05 Wet; Tensile strength: 11,600 psi; Freeze / Thaw / Heat: No Disintegration

Restrictions, (installation and/or use):

The Radius Tactile, Cast-In-Place Replaceable (Wet-Set) panels are for use in new construction embedded into freshly poured concrete.

Use of the product, (be specific to CDOT highway activities only):

Truncated dome panels are for the visually impaired warning of danger at curb ramps, transit platforms, and other hazardous areas as per the ADAAG.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

All of our products are fiberglass and carbon reinforced for superior structural integrity and impact resistance. The color is homogenous throughout and UV stable with a matte finish for superior wear and slip resistance performance as compared to others with a high gloss finish. The Radius Replaceable panels are the only patented and fully replaceable radius TWS on the market today. Since the radius panels are pre-formed and have the cutting angles already pre-scored this reduces labor, waste and cost associated with cutting typical rectangular products to fit a radius application. Full 5 year warranty.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : M-608-1
- [x] ASTM : D 695, D 790, D 570, D 1028, E 84, B 117, 1308, C 501, G 155, D 638, C 1026
- [x] AASHTO : H 20
- [ ] FHWA :
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : Smith-Emery Laboratories (9-22-2006), SGS (2-09-2006 to 9-30-2006),
- [x] other : KTA-Tator, Inc. (2-13-2008), MTI (5-02-2008), Plastics Technology Laboratories (10-20-2006 to 4-16-2007)

State DOT Approvals, (current documentation required):

AZ, CA, ID, NE, NM, OK, TX, UT

Sample submitted: [x] yes [ ] no [ ] n/a | Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments

A sample is available upon request at no cost to the DOT. The biggest advantage and cost saving is in replacing of the panel if needed years down the line without disturbing the existing concrete substrate and less than five minutes labor.